

SEQUENCE LISTING

<110> Philipps-Universität Marburg
 <120> Method for producing a cell and/or tissue and/or disease phase
 specific medicament
 <130> T46P5WO
 <160> 153
 <170> PatentIn version 3.3
 <210> 1
 <211> 33
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> hgd1 DNzyme against GATA-3mRNA
 <222> (1)..(33)

 <400> 1
 tcggtcagag gctagctaca acgatgcgtt gct 33

 <210> 2
 <211> 33
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> hdg2 DNzyme against GATA-3mRNA
 <222> (1)..(33)

 <400> 2
 ggcgtacgag gctagctaca acgactgctc ggt 33

 <210> 3
 <211> 33
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> hgd3 DNzyme against GATA-3mRNA
 <222> (1)..(33)

 <400> 3
 ggcggcgtag gctagctaca acgagacctg ctc 33

 <210> 4
 <211> 33
 <212> DNA
 <213> Homo sapiens

<220>
<221> hgd4 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 4
ctcgggtcag gctagctaca acgactgggt agc

33

<210> 5
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd5 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 5
tcctctgcag gctagctaca acgacgggt cct

33

<210> 6
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd6 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 6
actctgcaag gctagctaca acgatctgcg agc

33

<210> 7
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd7 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 7
gggcgacgag gctagctaca acgatctgca att

33

<210> 8
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd8 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 8

aaggggag gctagctaca acgagactct gca

33

<210> 9
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd9 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 9
aaaacgggag gctagctaca acgacagggtt gta

33

<210> 10
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd10 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 10
agaataaaag gctagctaca acgagggacc agg

33

<210> 11
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd11 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 11
atggcagaag gctagctaca acgaaaaacg gga

33

<210> 12
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd12 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 12
aactgggtag gctagctaca acgaggcaga ata

33

<210> 13
<211> 33

<212> DNA
<213> Homo sapiens

<220>
<221> hgd13 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 13
atccaaaaag gctagctaca acgatgggta tgg 33

<210> 14
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd14 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 14
aggggaagag gctagctaca acgaaaaaat cca 33

<210> 15
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd15 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 15
ttttaaaaag gctagctaca acgatatctt gga 33

<210> 16
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd16 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 16
gtggggggag gctagctaca acgaggaag gct 33

<210> 17
<211> 33
<212> DNA
<213> Homo sapiens

<220>

<221> hgd17 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 17
gttgaatgag gctagctaca acgattgctt tcg

33

<210> 18
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd18 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 18
gtcgttgaag gctagctaca acgagatttg ctt

33

<210> 19
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd19 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 19
ggccccgaag gctagctaca acgaccgcgc gcg

33

<210> 20
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd20 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 20
tcacctccag gctagctaca acgaggcctc ggc

33

<210> 21
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd21 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 21
ccgccgtcag gctagctaca acgactccat ggc

33

<210> 22
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd22 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 22
ggtggctcag gctagctaca acgaccagcg cgg

33

<210> 23
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd23 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 23
cgttgagcag gctagctaca acgaggcggg gtg

33

<210> 24
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd24 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 24
ccgcgtccag gctagctaca acgagtagga gtg

33

<210> 25
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd25 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 25
cagcgggtag gctagctaca acgatgcgcc gcg

33

<210> 26
<211> 33
<212> DNA

<213> Homo sapiens

<220>

<221> hgd26 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 26

gcacatccag gctagctaca acgactcctc cgg

33

<210> 27

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd27 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 27

aaaagcacag gctagctaca acgaccacct cct

33

<210> 28

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd28 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 28

taaaaagcag gctagctaca acgaatccac etc

33

<210> 29

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd29 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 29

gaccgtcgag gctagctaca acgagttaaa aag

33

<210> 30

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd30 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 30

ttgccttgag gctagctaca acgacgtcga tgt

33

<210> 31

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd31 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 31

agggcgggag gctagctaca acgagtgggt gcc

33

<210> 32

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd32 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 32

tggccctgag gctagctaca acgacgagtt tcc

33

<210> 33

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd33 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 33

acctctgcag gctagctaca acgacgtggc cct

33

<210> 34

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> hgd34 DNase against GATA-3mRNA

<222> (1)..(33)

<400> 34

cggagggtag gctagctaca acgactctgc acc

33

<210> 35
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd35 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 35
ggcggcacag gctagctaca acgactggct ccc

33

<210> 36
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd36 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 36
cgggcggcag gctagctaca acgaacctgg ctc

33

<210> 37
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd37 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 37
agggatccag gctagctaca acgagaagca gag

33

<210> 38
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd38 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 38
gggtaggagg gctagctaca acgaccatga agc

33

<210> 39
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd39 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 39
gggctgagag gctagctaca acgatccagg ggg

33

<210> 40
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd40 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 40
gtggatggag gctagctaca acgagtcttg gag

33

<210> 41
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd 41 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 41
cgtggtggag gctagctaca acgaggacgt ctt

33

<210> 42
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd 42 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 42
gggggtagag gctagctaca acgaggagag ggg

33

<210> 43
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd 43 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 43
ggaggaggag gctagctaca acgagaggcc ggg 33

<210> 44
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd44 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 44
gcccccgag gctagctaca acgaaaggag gag 33

<210> 45
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd45 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 45
ccgggggag gctagctaca acgagtcctt cgg 33

<210> 46
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd46 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 46
ggacagcgag gctagctaca acgagggtcc ggg 33

<210> 47
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd47 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 47
tggggtggag gctagctaca acgaagcgat ggg 33

<210> 48
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd48 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 48
cttgaggcag gctagctaca acgatctttc tcg

33

<210> 49
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd49 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 49
cacctggtag gctagctaca acgattgagg cac

33

<210> 50
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd50 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 50
gcaggggcag gctagctaca acgactggta ctt

33

<210> 51
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd51 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 51
ccagcttcag gctagctaca acgagctgtc ggg

33

<210> 52
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd52 DNAzyme against GATA-3mRNA
<222> (1)..(33)

<400> 52
gtgggacgag gctagctaca acgatccagc ttc

33

<210> 53
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd53 DNAzyme against GATA-3mRNA
<222> (1)..(33)

<400> 53
ggagtgggag gctagctaca acgagactcc agc

33

<210> 54
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd54 DNAzyme against GATA-3mRNA
<222> (1)..(33)

<400> 54
atgctgccag gctagctaca acgagggagt ggg

33

<210> 55
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd55 DNAzyme against GATA-3mRNA
<222> (1)..(33)

<400> 55
gggcggtcag gctagctaca acgagctgcc acg

33

<210> 56
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd56 DNAzyme against GATA-3mRNA
<222> (1)..(33)

<400> 56
gaggctccag gctagctaca acgaccaggg cgg 33

<210> 57
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd57 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 57
gtgggtcgag gctagctaca acgagaggag gct 33

<210> 58
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd58 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 58
aggtggtgag gctagctaca acgaggggtg gtg 33

<210> 59
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd59 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 59
actcgggcag gctagctaca acgagtaggg cgg 33

<210> 60
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd60 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 60
ggagctgtag gctagctaca acgatcgggc acg 33

<210> 61

<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd61 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 61
ggacttgcag gctagctaca acgaccgaag ccg

33

<210> 62
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd62 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 62
gggcctggag gctagctaca acgattgcat ccg

33

<210> 63
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd63 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 63
tgtgctggag gctagctaca acgacgggcc ttg

33

<210> 64
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd64 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 64
gttcacacag gctagctaca acgatccctg cct

33

<210> 65
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd65 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 65
cagttcacag gctagctaca acgaactccc tgc

33

<210> 66
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd66 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 66
cacagttcag gctagctaca acgaacactc cct

33

<210> 67
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd67 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 67
gttgccccag gctagctaca acgaagttca cac

33

<210> 68
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd68 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 68
tcgccgccag gctagctaca acgaagtggg gtc

33

<210> 69
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd69 DNase against GATA-3mRNA
<222> (1)..(33)

<400> 69

cccgtgccag gctagctaca acgactcgcc gcc

33

<210> 70
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> hgd70 DNazyme against GATA-3mRNA
<222> (1)..(33)

<400> 70
ggcgttgccag gctagctaca acgaaggtag tgt

33

<210> 71
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td1 DNazyme against T-bet mRNA
<222> (1)..(33)

<400> 71
tggcttctag gctagctaca acgagccctc gtc

33

<210> 72
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td2 DNazyme against T-bet mRNA
<222> (1)..(33)

<400> 72
gggctctgag gctagctaca acgagcctgg ctt

33

<210> 73
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td3 DNazyme against T-bet mRNA
<222> (1)..(33)

<400> 73
gggaccccg gctagctaca acgacggagc ccg

33

<210> 74
<211> 33

<212> DNA
<213> Homo sapiens

<220>
<221> td4 DNzyme against T-bet mRNA
<222> (1)..(33)

<400> 74
ggtgggggag gctagctaca acgacccacc gga

33

<210> 75
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td5 DNzyme against T-bet mRNA
<222> (1)..(33)

<400> 75
ggcgggggag gctagctaca acgaccgagg gcc

33

<210> 76
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td6 DNzyme against T-bet mRNA
<222> (1)..(33)

<400> 76
gggctgggag gctagctaca acgagggcag gga

33

<210> 77
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td7 DNzyme against T-bet mRNA
<222> (1)..(33)

<400> 77
cgtcgaggag gctagctaca acgaccgccc etc

33

<210> 78
<211> 33
<212> DNA
<213> Homo sapiens

<220>

<221> td8 DNase against T-bet mRNA
<222> (1)..(33)

<400> 78
gggctggcag gctagctaca acgacttccc gta

33

<210> 79
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td9 DNase against T-bet mRNA
<222> (1)..(33)

<400> 79
cgatgccag gctagctaca acgaccgggg cgg

33

<210> 80
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td10 DNase against T-bet mRNA
<222> (1)..(33)

<400> 80
gctccacgag gctagctaca acgagcccat ccg

33

<210> 81
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td11 DNase against T-bet mRNA
<222> (1)..(33)

<400> 81
ccggctccag gctagctaca acgagatgcc cat

33

<210> 82
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td12 DNase against T-bet mRNA
<222> (1)..(33)

<400> 82
tctccgaag gctagctaca acgaccggct cca

33

<210> 83
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td13 DNase against T-bet mRNA
<222> (1)..(33)

<400> 83
ccgtcagcag gctagctaca acgagctctcc gca

33

<210> 84
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td14 DNase against T-bet mRNA
<222> (1)..(33)

<400> 84
tccccggcag gctagctaca acgacggctc ggt

33

<210> 85
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td15 DNase against T-bet mRNA
<222> (1)..(33)

<400> 85
ccccgcgag gctagctaca acgagctcgt ccg

33

<210> 86
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td16 DNase against T-bet mRNA
<222> (1)..(33)

<400> 86
gtagggagag gctagctaca acgacccagg ctg

33

<210> 87
<211> 33
<212> DNA

<213> Homo sapiens

<220>

<221> td17 DNase against T-bet mRNA

<222> (1)..(33)

<400> 87

gggcgggcag gctagctaca acgacaaggc gcc

33

<210> 88

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td18 DNase against T-bet mRNA

<222> (1)..(33)

<400> 88

cggaaggag gctagctaca acgatcgccc gcg

33

<210> 89

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td19 DNase against T-bet mRNA

<222> (1)..(33)

<400> 89

tagtcctcag gctagctaca acgagcggcc ccg

33

<210> 90

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td20 DNase against T-bet mRNA

<222> (1)..(33)

<400> 90

tccccgacag gctagctaca acgactccag tcc

33

<210> 91

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td21 DNase against T-bet mRNA

<222> (1)..(33)

<400> 91

tttccccgag gctagctaca acgaacctcc agt

33

<210> 92

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td22 DNase against T-bet mRNA

<222> (1)..(33)

<400> 92

tgagcgcgag gctagctaca acgacctcag ttt

33

<210> 93

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td23 DNase against T-bet mRNA

<222> (1)..(33)

<400> 93

ggaccacaag gctagctaca acgaaggtgg ttg

33

<210> 94

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td24 DNase against T-bet mRNA

<222> (1)..(33)

<400> 94

cttgaccag gctagctaca acgaaacagg tgg

33

<210> 95

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> td25 DNase against T-bet mRNA

<222> (1)..(33)

<400> 95

aaacttgag gctagctaca acgacacaac agg

33

<210> 96
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td26 DNase against T-bet mRNA
<222> (1)..(33)

<400> 96
ctgattaaag gctagctaca acgattggac cac

33

<210> 97
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td27 DNase against T-bet mRNA
<222> (1)..(33)

<400> 97
tggtgctgag gctagctaca acgataaact tgg

33

<210> 98
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td28 DNase against T-bet mRNA
<222> (1)..(33)

<400> 98
tgatgatcag gctagctaca acgactctgt ctg

33

<210> 99
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td29 DNase against T-bet mRNA
<222> (1)..(33)

<400> 99
tggtgatgag gctagctaca acgacatctc tgt

33

<210> 100
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td30 DNase against T-bet mRNA
<222> (1)..(33)

<400> 100
gcttggtgag gctagctaca acgagatcat ctc 33

<210> 101
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td31 DNase against T-bet mRNA
<222> (1)..(33)

<400> 101
atgggaacag gctagctaca acgaccgccg tcc 33

<210> 102
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td32 DNase against T-bet mRNA
<222> (1)..(33)

<400> 102
gaatgggaag gctagctaca acgaatccgc cgt 33

<210> 103
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td33 DNase against T-bet mRNA
<222> (1)..(33)

<400> 103
tgacaggaag gctagctaca acgaggaac atc 33

<210> 104
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td34 DNase against T-bet mRNA
<222> (1)..(33)

<400> 104
agtaaagtag gctagctaca acgaaggaat ggg

33

<210> 105
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td35 DNase against T-bet mRNA
<222> (1)..(33)

<400> 105
cacagtaaag gctagctaca acgagacagg aat

33

<210> 106
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td36 DNase against T-bet mRNA
<222> (1)..(33)

<400> 106
gcccgccag gctagctaca acgaagtaaa tga

33

<210> 107
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td37 DNase against T-bet mRNA
<222> (1)..(33)

<400> 107
ccacaaacag gctagctaca acgacctgta gtg

33

<210> 108
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td38 DNase against T-bet mRNA
<222> (1)..(33)

<400> 108
gtccacaaag gctagctaca acgaatcctg tag

33

<210> 109
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td39 DNase against T-bet mRNA
<222> (1)..(33)

<400> 109
ccacgtccag gctagctaca acgaaaacat cct

33

<210> 110
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td40 DNase against T-bet mRNA
<222> (1)..(33)

<400> 110
ccaagaccag gctagctaca acgagtccac aaa

33

<210> 111
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td41 DNase against T-bet mRNA
<222> (1)..(33)

<400> 111
ccaccaagag gctagctaca acgacacgtc cac

33

<210> 112
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td42 DNase against T-bet mRNA
<222> (1)..(33)

<400> 112
gctggtccag gctagctaca acgacaagac cac

33

<210> 113
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td43 DNase against T-bet mRNA
<222> (1)..(33)

<400> 113
gctctggtag gctagctaca acgacgccag tgg

33

<210> 114
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td44 DNase against T-bet mRNA
<222> (1)..(33)

<400> 114
ctgcaccag gctagctaca acgattgccg etc

33

<210> 115
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td45 DNase against T-bet mRNA
<222> (1)..(33)

<400> 115
cacactgcag gctagctaca acgaccactt gcc

33

<210> 116
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td46 DNase against T-bet mRNA
<222> (1)..(33)

<400> 116
ctttccacag gctagctaca acgatgcacc cac

33

<210> 117
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td47 DNase against T-bet mRNA
<222> (1)..(33)

<400> 117
gcctttccag gctagctaca acgaactgca ccc 33

<210> 118
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td48 DNase against T-bet mRNA
<222> (1)..(33)

<400> 118
ttcctggcag gctagctaca acgagctgcc etc 33

<210> 119
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td49 DNase against T-bet mRNA
<222> (1)..(33)

<400> 119
gtggacgtag gctagctaca acgaaggcgg ttt 33

<210> 120
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td50 DNase against T-bet mRNA
<222> (1)..(33)

<400> 120
ccgggtggag gctagctaca acgagctacag gcg 33

<210> 121
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td51 DNase against T-bet mRNA
<222> (1)..(33)

<400> 121
cctggcgcag gctagctaca acgaccagtgc cgc 33

<210> 122

<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td52 DNase against T-bet mRNA
<222> (1)..(33)

<400> 122
caaataaaag gctagctaca acgattcctg gcg

33

<210> 123
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td53 DNase against T-bet mRNA
<222> (1)..(33)

<400> 123
tttcccaaag gctagctaca acgagaaact tcc

33

<210> 124
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td54 DNase against T-bet mRNA
<222> (1)..(33)

<400> 124
attgttgag gctagctaca acgagcccc ttg

33

<210> 125
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td55 DNase against T-bet mRNA
<222> (1)..(33)

<400> 125
tgggtcacag gctagctaca acgatgttg acg

33

<210> 126
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td56 DNase against T-bet mRNA
<222> (1)..(33)

<400> 126
tctgggtcag gctagctaca acgaattgtt gga

33

<210> 127
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td57 DNase against T-bet mRNA
<222> (1)..(33)

<400> 127
gcacaatcag gctagctaca acgactgggt cac

33

<210> 128
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td58 DNase against T-bet mRNA
<222> (1)..(33)

<400> 128
ggagcacaag gctagctaca acgacatctg ggt

33

<210> 129
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td59 DNase against T-bet mRNA
<222> (1)..(33)

<400> 129
actggagcag gctagctaca acgaaatcat ctg

33

<210> 130
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td60 DNase against T-bet mRNA
<222> (1)..(33)

<400> 130

atggagggag gctagctaca acgatggagc aca

33

<210> 131
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td61 DNase against T-bet mRNA
<222> (1)..(33)

<400> 131
tgggtacttag gctagctaca acgaggagg act

33

<210> 132
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td62 DNase against T-bet mRNA
<222> (1)..(33)

<400> 132
gggctggtag gctagctaca acgattatgg agg

33

<210> 133
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td63 DNase against T-bet mRNA
<222> (1)..(33)

<400> 133
tcaacgatag gctagctaca acgagcagcc ggg

33

<210> 134
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td64 DNase against T-bet mRNA
<222> (1)..(33)

<400> 134
cctcaacgag gctagctaca acgaatgcag ccg

33

<210> 135
<211> 33

<212> DNA
<213> Homo sapiens

<220>
<221> td65 DNase against T-bet mRNA
<222> (1)..(33)

<400> 135
tcacctcaag gctagctaca acgagatatg cag

33

<210> 136
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td66 DNase against T-bet mRNA
<222> (1)..(33)

<400> 136
cgtcggttcag gctagctaca acgactcaac gat

33

<210> 137
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td67 DNase against T-bet mRNA
<222> (1)..(33)

<400> 137
gtaaagatag gctagctaca acgagcgtgt tgg

33

<210> 138
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td68 DNase against T-bet mRNA
<222> (1)..(33)

<400> 138
aagtaaagag gctagctaca acgaatgcgt gtt

33

<210> 139
<211> 33
<212> DNA
<213> Homo sapiens

<220>

<221> td69 DNase against T-bet mRNA
<222> (1)..(33)

<400> 139
ggcaatgaag gctagctaca acgatgggtt tct

33

<210> 140
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td70 DNase against T-bet mRNA
<222> (1)..(33)

<400> 140
tcacggcaag gctagctaca acgagaactg ggt

33

<210> 141
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td71 DNase against T-bet mRNA
<222> (1)..(33)

<400> 141
aggcagtcag gctagctaca acgaggcaat gaa

33

<210> 142
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td72 DNase against T-bet mRNA
<222> (1)..(33)

<400> 142
atctcggcag gctagctaca acgatctggt agg

33

<210> 143
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td73 DNase against T-bet mRNA
<222> (1)..(33)

<400> 143
gctgagtaag gctagctaca acgactcggc att

33

<210> 144
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td74 DNase against T-bet mRNA
<222> (1)..(33)

<400> 144
tattatcaag gctagctaca acgatttcag ctg 33

<210> 145
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td75 DNase against T-bet mRNA
<222> (1)..(33)

<400> 145
gggttattag gctagctaca acgacaattt tca 33

<210> 146
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td76 DNase against T-bet mRNA
<222> (1)..(33)

<400> 146
aaggggttag gctagctaca acgatatcaa ttt 33

<210> 147
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> td77 DNase against T-bet mRNA
<222> (1)..(33)

<400> 147
ctcccggaag gctagctaca acgacctttg gca 33

<210> 148
<211> 33
<212> DNA

<213> Homo sapiens

<220>

<221> td78 DNazyme against T-bet mRNA

<222> (1)..(33)

<400> 148

gtacatggag gctagctaca acgatcaaag ttc

33

<210> 149

<211> 2588

<212> DNA

<213> Homo sapiens

<220>

<221> td54 bindingsite

<222> (952)..(970)

<220>

<221> td69 bindingsite

<222> (1096)..(1114)

<220>

<221> td70 bindingsite

<222> (1100)..(1118)

<400> 149

cggcccgcctg gagaggaagc ccgagagctg ccgcgcgcct gccggacgag ggcgtagaag 60

ccaggcgctca gagcccgggc tccggtgggg tccccacccc ggccctcggg tcccccgccc 120

cctgctccct gccatccca gccacgcga ccctctcgcg cgcgaggagg cgggtcctcg 180

acggctacgg gaaggtgcca gcccgcgccg gatgggcatc gtggagccgg gttgcggaga 240

catgctgacg ggcaccgagc cgatgccggg gagcgacgag ggccggggcg ctggcgccga 300

cccgcagcac cgctacttct acccgagacc gggcgcgag gacgcggacg agcgtcgcgg 360

gggcggcagc ctgggggtct cctaccgggg gggcgccctg gtgcccggcc cgccgagccg 420

cttccttgga gcctacgcct acccgccgcg acccgaggcg gccggcttcc ccggcgcggg 480

cgagtccttc ccgccgcccg cggacgccga gggctaccag ccggggcgagg gctacgccgc 540

cccggacccg cgcgccgggc tctaccgggg gccgcgtgag gactacgcgc taccgcggg 600

actggagggtg tcgggggaaac tgagggtcgc gctcaacaac cacctgttgt ggtccaagtt 660

taatcagcac cagacagaga tgatcatcac caagcaggga cggcggtatgt tccattcct 720

gtcatttact gtggccgggc tggagccac cagccactac aggatgtttg tggacgtggt 780

cttggtggac cagcaccact ggcggtacca gagcggcaag tgggtgcagt gtggaaaggc 840

cgagggcagc atgccaggaa accgcctgta cgtccacccg gactccccca acacaggagc 900

gcactggatg cgccaggaag tttcatttgg gaaactaaag ctcacaaaca acaagggggc 960

gtccaacaat	gtgacccaga	tgattgtgct	ccagtccctc	cataagtacc	agccccggct	1020
gcatatcggt	gaggtgaacg	acggagagcc	agaggcagcc	tgcaacgctt	ccaacacgca	1080
tatctttact	ttccaagaaa	cccagttcat	tgccgtgact	gcctaccaga	atgccgagat	1140
tactcagctg	aaaattgata	ataacccctt	tgccaaagga	ttccgggaga	actttgagtc	1200
catgtacaca	tctgttgaca	ccagcatccc	ctccccgcct	ggacccaact	gtcaattcct	1260
tggggggagat	cactactctc	ctctcctacc	caaccagtat	cctgttccca	gccgcttcta	1320
ccccgacctt	cctggccagg	cgaaggatgt	ggttccccag	gcttactggc	tggggggccc	1380
ccgggaccac	agctatgagg	ctgagtttcg	agcagtcagc	atgaagcctg	cattcttgcc	1440
ctctgccccct	gggcccacca	tgtcctacta	ccgaggccag	gaggtcctgg	cacctggagc	1500
tggctggcct	gtggcacccc	agtaccctcc	caagatgggc	ccggccagct	ggttccgccc	1560
tatgcccact	ctgcccattg	aaccggcccc	tggaggctca	gagggacggg	gaccagagga	1620
ccaggggtccc	cccttggtgt	ggactgagat	tgcccccatc	cggccggaat	ccagtgattc	1680
aggactgggc	gaaggagact	ctaagaggag	gcgcgtgtcc	ccctatcctt	ccagtgggtga	1740
cagctcctcc	cctgctgggg	ccccttctcc	ttttgataag	gaagctgaag	gacagtttta	1800
taactatttt	cccaactgag	cagatgacat	gatgaaagga	acagaaacag	tgttattagg	1860
ttggaggaca	ccgactaatt	tgggaaacgg	atgaaggact	gagaaggccc	ccgctccctc	1920
tggcccttct	ctgttttagta	gttggttggg	gaagtggggc	tcaagaagga	ttttgggggt	1980
caccagatgc	ttcctggccc	acgatgaaac	ctgagagggg	tgtccccttg	ccccatcctc	2040
tgccctaact	acagtcgttt	acctgggtgt	gcgtcttgct	tttggtttcc	agctggagaa	2100
aagaagacaa	gaaagtcttg	ggcatgaagg	agctttttgc	atctagtggg	tgggaggggt	2160
caggtgtggg	acatgggagc	aggagactcc	actttcttcc	tttgtacagt	aactttcaac	2220
cttttcgttg	gcatgtgtgt	taatccctga	tccaaaaaga	acaatacac	gtatgttata	2280
accatcagcc	cgccaggggc	agggaaagga	ctcacctgac	tttggacagc	tggcctgggc	2340
tccccctgct	caaacacagt	ggggatcaga	gaaaaggggc	tggaaagggg	ggaatggccc	2400
acatctcaag	aagcaagata	ttgtttgtgg	tggttgtgtg	tgggtgtgtg	ttttttcttt	2460
ttctttcttt	ttattttttt	tgaatggggg	aggctattta	ttgtactgag	agtgggtgtc	2520
ggatatattc	cttttgtctt	catcactttc	tgaaataaac	ataaaaactgt	taaaaaaaaa	2580
aaaaaaaa						2588

<210> 150
 <211> 2450
 <212> DNA

<213> Homo sapiens

<220>

<221> mutation

<222> (134)..(134)

<220>

<221> mutation

<222> (310)..(310)

<220>

<221> td54 bindingsite

<222> (952)..(970)

<220>

<221> td69 bindingsite

<222> (1096)..(1114)

<220>

<221> td70 bindingsite

<222> (1100)..(1118)

<220>

<221> mutation

<222> (1399)..(1399)

<220>

<221> mutation

<222> (1556)..(1556)

<400> 150

cgccccgctg gagaggaagc ccgagagctg ccgcgcgcct gccggacgag ggcgtagaag	60
ccaggcgctca gagccccgggc tccgggtgggg tccccacccc ggccctcggg tccccgccc	120
cctgtccct gcctatccca gccacgcga ccctctcgcg cgcggagggg cgggtcctcg	180
acggctacgg gaaggtgccg gcccgccccg gatgggcatc gtggagccgg gttgcggaga	240
catgtgacg ggcaccgagc cgatgccggg gagcgacgag ggccggggcg ctggcgccga	300
ccgcagcag cgctacttct acccgagacc gggcgcgcag gacgcggacg agcgtcgcgg	360
gggcggcagc ctgggggtct cctacccggg gggcgccttg gtgcccggcc cgccgagccg	420
cttccttgga gcctacgcct acccgccgcg acccaggcg gccggcttcc ccggcgcggg	480
cgagtccttc ccgccgcccg cggacgccga gggctaccag ccgggcgagg gctacgccgc	540
cccggaaccg cgcgcggggc tctacccggg gccgcgtgag gactacgcgc taccgcggg	600
actggaggtg tcggggaaac tgagggtcgc gctcaacaac cacctgttgt ggtccaagtt	660
taatcagcac cagacagaga tgatcatcac caagcaggga cggcggatgt tccattcct	720
gtcatttact gtggccgggc tggagccac cagccactac aggatgtttg tggacgtggt	780
cttggtggac cagcaccact ggcggtacca gagcggcaag tgggtgcagt gtggaaaggc	840
cgagggcagc atgccaggaa accgcctgta cgtccaccgc gactccccca acacaggagc	900

gcactggatg cgccaggaag tttcatttgg gaaactaaag ctcacaaaca acaagggggc	960
gtccaacaat gtgaccaga tgattgtgct ccagtcctc cataagtacc agccccggct	1020
gcataatcgtt gaggtgaacg acggagagcc agaggcagcc tgcaacgctt ccaacacgca	1080
tatctttact ttccaagaaa cccagttcat tgccgtgact gcctaccaga atgccgagat	1140
tactcagctg aaaattgata ataaccctt tgccaaagga ttccgggaga actttgagtc	1200
catgtacaca tctgttgaca ccagcatecc ctccccgct ggaccaact gtcaattcct	1260
tgggggagat cactactctc ctctctacc caaccagtat cctgttccca gccgcttcta	1320
ccccgacctt cctggccagg cgaaggatgt gggtccccag gcttactggc tggggggccc	1380
ccgggaccac agctatgggg ctgagtttcg agcagtcagc atgaagcctg cattcttgcc	1440
ctctgcccct gggcccacca tgctctacta ccgaggccag gaggtcctgg cacctggagc	1500
tggctggcct gtggcaccac agtaccctcc caagatgggc ccggccagct gggttcagccc	1560
tatgaggact ctgccatgg aaccggccc tggaggctca gagggacggg gaccagagga	1620
ccagggtccc cccttggtgt ggactgagat tgccccatc cggccggaat ccagtgattc	1680
aggactgggc gaaggagact ctaaggaggag gcgcgtgtcc ccctatcctt ccagtgggtga	1740
cagctcctcc cctgctgggg ccccttctcc ttttgataag gaagctgaag gacagtttta	1800
taactatttt cccaactgag cagatgacat gatgaaagga acagaaacag tgttattagg	1860
ttggaggaca ccgactaatt tgggaaacgg atgaaggact gagaaggccc ccgtccctc	1920
tggcccttct ctgttttagta gttggttggg gaagtggggc tcaagaagga ttttgggggt	1980
caccagatgc ttctggccc acgatgaaac ctgagagggg tgcccccttg ccccatcctc	2040
tgcctaact acagtcgttt acctggtgct gcgtcttgct tttggtttcc agctggagaa	2100
aagaagacaa gaaagtcttg ggcataagg agctttttgc atctagtggg tgggaggggt	2160
caggtgtggg acatgggagc aggagactcc actttcttcc tttgtacagt aactttcaac	2220
cttttcgttg gcatgtgtgt taatccctga tccaaaaaga acaatacac gtatgttata	2280
accatcagcc cgccagggc agggaaagga ctcacctgac tttggacagc tggcctgggc	2340
tccccctgct caaacacagt ggggatcaga gaaaaggggc tggaaagggg ggaatggccc	2400
acatctcaag aagcaagata ttgtttgtgg tgggtgtgtg tgggtgtgtg	2450

<210> 151

<211> 2399

<212> DNA

<213> Homo sapiens

<400> 151

ggcgccgtct tgatactttc agaaagaatg cattccctgt aaaaaaaaaa aaaaaatact	60
---	----

gagagagggga gagagagaga gaagaagaga gagagacgga gggagagcga gacagagcga	120
gcaacgcaat ctgaccgagc aggtcgtacg cgcgcgcctc ctctctctct ctgtctctcg	180
ctacccaggt gacccgagga gggactccgc ctccgagcgg ctgaggaccc cgggtgcagag	240
gagcctggct cgcagaattg cagagtcgtc gccccttttt acaacctggc cccgttttat	300
tctgcgtac ccagtttttg gatttttgtc tcccccttct tctctttgtt aaacgacccc	360
tccaagataa tttttaaaaa accttctctt ttgtctacct ttgttccca gccttcccat	420
ccccccaccg aaagcaaata attcaacgac ccccgacctt ccgacggcag gagccccccg	480
acctcccagg cggaccgccc tccctccccg cgcgcggggt ccggggcccg cgagagggcg	540
cgagcacagc cgaggccatg gaggtgacgg cggaccagcc gcgctgggtg agccaccacc	600
accccgccgt gctcaacggg cagcaccggg acacgcacca cccgggcctc agccactcct	660
acatggacgc ggcgcagtac ccgctgccgg aggaggtgga tgtgtttttt aacatcgacg	720
gtcaaggcaa ccacgtcccg ccctactacg gaaactcggc cagggccacg gtgcagaggt	780
acctccgac ccaccacggg agccagggtg gccgcccggc tctgttctat ggatccctac	840
cctggctgga cggcggcaaa gccctgggca gccaccacac cgcctcccc tggaaatctca	900
gccccctctc caagacgtcc atccaccacg gctccccggg gccctctctc gtctaccccc	960
cggcctcgtc ctctctcttg tcgggggggc acgccagccc gcacctcttc accttcccgc	1020
ccaccccgcc gaaggacgtc tccccggacc catcgctgtc caccacaggc tcggccggct	1080
cggcccgga ggacgagaaa gagtgcctca agtaccaggt gccctgccc gacagcatga	1140
agctggagtc gtccactcc cgtggcagca tgaccgcctt gggaggagcc tctcgtcga	1200
cccaccacc catcaccacc taccgcctt acgtgcccga gtacagctcc ggactcttcc	1260
cccccagcag cctgctgggc ggctccccca ccggcttcgg atgcaagtcc aggcccaagg	1320
cccgtccag cacagaaggc agggagtgtg tgaactgtgg ggcaacctcg accccactgt	1380
ggcggcgaga tggcacggga cactacctgt gcaacgcctg cgggtcttat cacaaaatga	1440
acggacagaa cgggccccctc attaaagcca agcgaaggct gtctgcagcc aggagagcag	1500
ggacgtcctg tgcgaactgt cagaccacca caaccacact ctggaggagg aatgccaatg	1560
gggacctgt ctgcaatgcc tgtgggctct actacaagct tcacaatatt aacagacccc	1620
tgactatgaa gaaggaaggc atccagacca gaaaccgaaa aatgtctagc aaatccaaaa	1680
agtcaaaaa agtgcacgac tcttgaggg acttccccaa gaacagctcg tttaaccggg	1740
ccgcccctct cagacacatg tcttccctga gccacatctc gcccttcagc cactccagcc	1800
acatgctgac cagccccag ccgatgcacc cgccatccag cctgtccttt ggaccacacc	1860

accctccag catggtcacc gccatgggtt agagccctgc tcgatgctca cagggccccc	1920
agcgagagtc cctgcagtcc ctttcgactt gcattttttgc aggagcagta tcatgaagcc	1980
taaacgcgat ggatatatgt ttttgaaggc agaaagcaaa attatgtttg ccactttgca	2040
aaggagctca ctgtggtgtc tgtgttccaa ccactgaatc tggaccccat ctgtgaataa	2100
gccattctga ctcatatccc ctattttaaca gggctctctag tgctgtgaaa aaaaaaatgc	2160
tgaacattgc atataactta tattgtaaga aatactgtac aatgacttta ttgcatctgg	2220
gtagctgtaa ggcataaggg atgccaagaa gtttaaggaa tatgggagaa atagtgtgga	2280
aattaagaag aaactagggtc tgatattcaa atggacaaac tgccagtttt gtttcctttc	2340
actggccaca gttgtttgat gcattaaaaa aaaataaaaa aaagaaaaaa gagaaaaga	2399

<210> 152
 <211> 2365
 <212> DNA
 <213> Homo sapiens

<400> 152	
tcccagcctt cccatcccc caccgaaagc aaatcattca acgacccccg accctccgac	60
ggcaggagcc ccccgacctc ccaggcggac cgcccttccc tccccgcgcg ggttccgggc	120
ccggcgagag ggcgcgacga cagccgaggc catggagggtg acggcggacc agccgcgctg	180
ggtgagccac caccaccccg ccgtgctcaa cgggcagcac ccggacacgc accacccggg	240
cctcagccac tcctacatgg acgcggcgca gtacccgctg ccggaggagg tggatgtgct	300
ttttaacatc gacggtcaag gcaaccacgt cccgcctac tacggaaact cggtcagggc	360
cacggtgcag aggtaccctc cgacccacca cgggagccag gtgtgccgcc cgctctgct	420
tcatggatcc ctaccctggc tggacggcgg caaagccctg ggcagccacc acaccgcctc	480
cccctggaat ctcagcccct tctccaagac gtccatccac cacggctccc cggggccct	540
ctccgtctac ccccggcct cgtcctctc cttgtcgggg ggccacgcca gcccgcacct	600
cttcaccttc ccgcccaccc cgccgaagga cgtctccccg gacccatcgc tgtccacccc	660
aggctcggcc ggctcggccc ggcaggacga gaaagagtgc ctcaagtacc aggtgccct	720
gcccgcagac atgaagctgg agtcgtccca ctcccgtggc agcatgaccg ccctgggtgg	780
agcctcctcg tcgaccacc accccatcac cacctaccg ccctacgtgc ccgagtacag	840
ctccggactc ttcccccca gcagcctgct gggcggctcc ccacccggct tcggatgcaa	900
gtccaggccc aaggcccgt ccagcacagg cagggagtgt gtgaactgtg gggcaacctc	960
gacccactg tggcggcgag atggcacggg acactacctg tgcaacgcct gcgggctcta	1020
tcacaaaatg aacggacaga accggcccct cattaagccc aagcgaaggc tgtctgcagc	1080

caggagagca gggacgtcct gtgcgaactg tcagaccacc acaaccacac tctggaggag	1140
gaatgccaat ggggaccctg tctgcaatgc ctgtgggctc tactacaagc ttcacaatat	1200
taacagaccc ctgactatga agaaggaagg catccagacc agaaaccgaa aaatgtctag	1260
caaatccaaa aagtgcacaaa aagtgcacga ctcactggag gacttcccca agaacagctc	1320
gtttaacccg gccgccctct ccagacacat gtcctccctg agccacatct cgcccttcag	1380
ccactccagc cacatgctga ccacgcccac gccgatgcac ccgccatcca gcctgtcctt	1440
tggaccacac caccctcca gcatgggtcac cgccatgggt tagagccctg ctcgatgctc	1500
acagggcccc cagcgagagt ccctgcagtc cttttcgact tgcatttttg caggagcagt	1560
atcatgaagc ctaaacgcga tggatatatg tttttgaagg cagaaagcaa aattatgttt	1620
gccactttgc aaaggagctc actgtggtgt ctgtgttcca accactgaat ctggacccca	1680
tctgtgaata agccattctg actcatatcc cctatttaac agggctctcta gtgctgtgaa	1740
aaaaaaaaat cctgaacatt gcatataact tatattgtaa gaaatactgt acaatgactt	1800
tattgcatct gggtagctgt aaggcatgaa ggatgccaa aagtttaagg aatatgggag	1860
aaatagtgtg gaaattaaga agaaactagg tctgatattc aaatggacaa actgccagtt	1920
ttgtttcctt tcaactggcca cagttgtttg atgcattaaa agaaaataaa aaaaagaaaa	1980
aagagaaaaa aaaaaaaaaa aaaaaagttg taggcgaatc atttgttcaa agctgttggc	2040
cctctgcaaa ggaaataacca gttctgggca atcagtgtta ccgttcacca gttgccattg	2100
agggtttcag agagcctttt tctaggccta catgctttgt gaacaagtcc ctgtaattgt	2160
tgtttgtatg tataattcaa agcaccaaaa taagaaaaga tgtagattta tttcatcata	2220
ttatacagac cgaactgttg tataaattta tttactgcta gtcttaagaa ctgctttctt	2280
tcgtttgttt gtttcaatat tttccttctc tctcaatttt cggttgaata aactagatta	2340
cattcagttg gcaaaaaaaaa aaaaa	2365

<210> 153
 <211> 2728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> mutation
 <222> (57)..(57)

<220>
 <221> mutation
 <222> (59)..(59)

<220>
 <221> mutation

<222> (69)..(69)

<220>

<221> hgd40 bindingsite

<222> (909)..(927)

<400> 153

ggcgccgtct tgatactttc agaaagaatg cattccctgt aaaaaaaaaa aaaaaaaaaat	60
actgagagag ggagagagag agaagaagag agagagacgg agggagagcg agacagagcg	120
agcaacgcaa tctgaccgag caggtcgtac gccgccgcct cctcctcctc tctgctcttc	180
gctacccagg tgacccgagg agggactccg cctccgagcg gctgaggacc ccggtgcaga	240
ggagcctggc tcgcagaatt gcagagtcgt cgcccccttt tacaacctgg tcccgtttta	300
ttctgccata cccagttttt ggatttttgt ctcccccttc ttctctttgc taaacgaccc	360
ctccaagata atttttaaaa aaccttctcc ttgctcacc ttgcttccc agccttccca	420
tccccccacc gaaagcaa at cattcaacga cccccgaccc tccgacggca ggagcccccc	480
gacctccag gcggaccgcc ctccctcccc gcgcgcgggt tccgggcccg gcgagagggc	540
gcgagcacag ccgaggccat ggaggtgacg gcggaccagc gcgcgtgggt gagccaccac	600
caccccgccg tgctcaacgg gcagcaccgg gacacgcacc acccgggcct cagccactcc	660
tacatggacg cggcgagta cccgctgccg gaggaggtgg atgtgctttt taacatcgac	720
ggtcaaggca accacgtccc gccctactac ggaaactcgg tcaggggcac ggtgcagagg	780
tacctccga cccaccacgg gagccagggtg tgccgcccgc ctctgcttca tggatccctc	840
cctggctgga cggcggcaaa gccctgggca gccaccacac cgcctcccc tggaatctca	900
gcccccttc caagacgtcc atccaccacg gctccccggg gccccctcc gtctaccccc	960
cggcctcgtc ctctccttg tcggggggcc acgccagccc gcacctctc accttcccgc	1020
ccacccgcc gaaggacgtc tccccggacc catcgctgtc caccacaggc tcggccgggt	1080
cggcccggca ggacgagaaa gaggcctca agtaccaggt gccctgccc gacagcatga	1140
agctggagtc gtccactcc cgtggcagca tgaccgccct gggaggagcc tctcgtcga	1200
cccaccacc catcaccacc taccgcct acgtgcccga gtacagctcc ggactcttcc	1260
ccccagcag cctgctgggc ggctccccca ccggcttcgg atgcaagtcc aggcccaagg	1320
cccgtccag cacagaaggc agggagtgtg tgaactgtgg ggcaacctcg accccactgt	1380
ggcggcgaga tggcacggga cactacctgt gcaacgcctg cgggctctat caaaaatga	1440
acggacagaa ccggccccctc attaagcca agcgaaggct gtctgcagcc aggagagcag	1500
ggacgtcctg tgcgaactgt cagaccacca caaccacact ctggaggagg aatgccaatg	1560
gggacctgt ctgcaatgcc tgtgggctct actacaagct tcacaatatt aacagacccc	1620

tgactatgaa gaaggaaggc atccagacca gaaaccgaaa aatgtctagc aaatccaaaa	1680
agtgcaaaaa agtgcacatgac tcaactggagg acttccccaa gaacagctcg tttaacccgg	1740
ccgccctctc cagacacatg tcttccctga gccacatctc gcccttcagc cccccagcc	1800
acatgctgac cacgcccacg ccgatgcacc cgccatccag cctgtccttt ggaccacacc	1860
acccctccag catgggcacc gccatgggtt agagccctgc tgatgctcac agggcccca	1920
gcgagagtcc ctgcagtccc tttcgacttg catttttgca ggagcagtat catgaagcct	1980
aaacgcgatg gatatatgtt tttgaaggca gaaagcaaaa ttatgcttgc cactttgcaa	2040
aggagctcac tgtggtgtct gtgttccaac cactgaatct ggaccccatc tgtgaataag	2100
ccattctgac tcatatcccc tatttaacag ggtctctagt gctgtgaaaa aaaaaaatgc	2160
tgaacattgc atataactta tattgtaaga aatactgtac aatgacttta ttgcatctgg	2220
gtagctgtaa ggcacgaagg atgccaagaa gttaaggaa tatgggagaa atagtgtgga	2280
aattaagaag aaactaggtc tgatattcaa atggacaaac tgccagtttt gtttcctttc	2340
actggccaca gttgtttgat gcattaaaag aaaataaaaa aaagaaaaag agaaaagaaa	2400
aaaaaagaaa aaagttgtag gcgaatcatt tgttcaaagc tgttggcctc tgcaaaggaa	2460
ataccagttc gggcaatcag tgttaccgtt caccagttgc cattgagggc ttcagagagc	2520
ctttttctag gcctacatgc tttgtgaaca agtccctgta attgttggtt gtatgtataa	2580
ttcaaagcac caaaataaga aaagatgtag atttatttca tcatattata cagaccgaac	2640
tggtgtataa atttatttac tgctagtctt aagaactgct ttctttcggt tggttggttc	2700
aatattttcc ttctctctca attttcgg	2728